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LOWER RIVER ROAD, P.O. BOX 248, CHARLESTON, TN
November 14, 1989

Paul Leonard
Enforcement Project Manager
VA/WV Remedial Response Section (3HW24)
United States Environmental Protection Agency
841 Chestnut Building
Philadelphia, Pennsylvania 19107

Dear Mr. Leonard:

Recently Jim Brown requested your assistance in obtaining permission to use the USGS gaging station located at Mile 59.3 on the North Fork of the Holston. A synopsis of plans concerning the gage station follows:

A study of the fate and transport of mercury in the North Fork Holston River requires hydrologic measurements and water sampling at selected points along the river. The proposed data collection sites are at NFHRM 82.5, 90.8 and 59.3. Automated monitoring equipment will be housed in specially built structures at Miles 82.5 and 80.0. The former USGS structure at NFHRM 59.3 would be very appropriate for housing the equipment at that site. Equipment for each monitoring station will include:

- Continuous monitoring and sensors for pH, dissolved oxygen, conductivity, and temperature (Hydrolab Scout configured for SDI-12 communication); turbidity (Turner Designs Model 40 Nephelometer); and water depth (Druck Model PDCR 930/TI, 2.5 psi pressure transducer).
- CR10 data logger system (Campbell Scientific) with RAM cartridges to record data from the continuous monitors.
- Calibration solutions, standards and equipment as recommended by manufacturers of the equipment.
- Sequential water sampler (Isco 2700 sampler) capable of collecting 24 individual samples.

Stations will be checked twice per week by environmental technicians or professionals familiar with equipment operation. Personnel will be employees of Olin Corporation or Young-Morgan and Associates. Access will be restricted. The proposed period of use would be from December 1989 through December 1991.

The program is described in greater detail in the Field Sampling Plan for Mercury Fate and Transport Studies (dated October 26, 1989). If you have any questions or require further information, please call me at 615/336-4388.

Sincerely,

OLIN CORPORATION

A handwritten signature in dark ink, appearing to read "Keith D. Roberts", with a long horizontal line extending to the right.

Keith D. Roberts
Sr. Associate Environmental Specialist

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